

# Transformation Protocol 1

## Preparation:

Aerobically grown *M. magneticum* AMB-1 was harvested and washed with 10 mM TES [N-tris(hydroxymethyl)methyl-2-aminoethanesulfonic acid] buffer containing 272 mM sucrose (pH 7.5) and resuspended in the same buffer at  $10^9$  cells/ml.

## Electroporation:

A 50- $\mu$ l cell suspension was aliquoted as electrocompetent cells. The cells were subjected to single-pulse electroporation and immediately transferred to 500  $\mu$ l of Magnetic Spirillum growth medium (MSGM) supplemented with 20 mM Mg<sup>2+</sup> and incubated at 27°C overnight with shaking at 100 rpm.

## Plating:

Cells were diluted in 5 ml of MSGM containing 0.7% agar and plated on 1% agar in MSGM containing 5  $\mu$ g of ampicillin per ml or 2.5  $\mu$ g of kanamycin per ml and incubated under anaerobic conditions.